WELDING JOURNAL INDEX

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Welding Journal

This part includes general technical articles, papers presented before Section and National meetings, articles for the Practical Welder and Designer, news, biographical items, current welding literature and advertising.

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This section includes the reports of the Welding Research Council, critical digests of the literature, reports of the Project Committees and research reports of industry, also papers presented at National Meetings.

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KAMMER, P. A.—Solid-State Welding of Aluminum, 11-s to 22-s (Jan).
KELLY, J.—The BWRA Quality Monitor and Spot-Welding Galvanized Steel Sheet—An Evaluation, 114-s to 119-s (Mar).

KENNEDY, J. R.—Weldability of Titanium Alloy Sheets 6Al – 6V – 2Sn and 8Al – 1Mo – 1V, 64-s to 73-s (Feb).
KENNEDY, JAMES R.—Joining Cylinders of Ta – 10W and 4340 Steel by Explosive Welding, 509-s to 515-s (Nov).
KEY, R. E.—Electron Beam Welding of D6AC Steel in the Heat-Treated Condition, 337-s to 342-s (Aug).
KIHARA, HIROSHI—The Deep Notch Test and Brittle Fracture Initiation, 133-s to 143-s (Mar).
KING, W. H.—Diffusion Welding of Commercially Pure Titanium, 289-s to 298-s (Jul).
KNOWLSON, P. M.—The BWRA Quality Monitor and Spot-Welding Galvanized Steel Sheet—An Evaluation, 114-s to 119-s (Mar).
KOFFLER, W. T.—A Test for Simulating the Weld Fusion Behavior of Specialty Steels and Alloys, 259-s to 265-s (Jun).
KOSCHNITZKE, K. A.—Quantitative Effect of Section Size on Transition Temperature, 254-s to 258-s (Jun).

LANGE, E. A.—Low Cycle Fatigue Crack Propagation in A201B, A302B, and A517F Pressure Vessel Steels, 322-s to 327-s (Jul).
LIEBERMAN, EDWARD—Joining Cylinders of Ta-10W and 4340 Steel by Explosive Welding, 509-s to 515-s (Nov).
LINDH, D. V.—Heat Generation and Residual Stress Development in Resistance Spot Welding, 351-s to 360-s (Aug).
LOCKWOOD, L. F.—Gas-Shielded Stud Welding of Magnesium, 168-s to 174-s (Apr).
LOVEJOY, P. T.—Fatigue Strength of a Weldable High Strength Martensitic Stainless Steel, 391-s to 398-s (Sep).
LOVELL, D. T.—Diffusion Welding of Dissimilar Metals, 23-s to 31-s (Jan).
LUBAHN, J. D.—Brittle Fracture of Welded Steel Plates, 481-s to 490-s (Nov).

MCHENRY, H. I.—Electron Beam Welding of D6AC Steel in the Heat-Treated Condition, 337-s to 342-s (Aug).
MALATESTA, W. C.—Solidification and Segregation in Welding of Binary Alloys, 58-s to 62-s, (Feb).
MALONE, M. O.—Sigma and 885° F Embrittlement of Chromium-Nickel Stainless Steel Weld Metals, 241-s to 253-s (Jun).
MARGOLIS, W. S.—Alloy Effects in the Low-Pressure Diffusion Bonding of Superalloys, 283-s to 288-s (Jun).
MARTIN, D. C.—Electron Beam Welding of Beryllium, 525-s to 540-s (Dec).
METZGER, G. E.—Some Mechanical Properties of Welds in 6061 Aluminum Alloy Sheet, 457-s to 469-s (Oct).
MIKUS, E. B.—Recrystallization Behavior and Brazing of the TZM Molybdenum Alloy, 299-s to 308-s (Jul).
MIKUS, E. B.—Brazing Alloys and Techniques for Tantalum Honeycomb Structures, 343-s to 350-s (Aug).
MISHLER, H. W.—Electron Beam Welding of Beryllium, 525-s to 540-s (Dec).
MITCHELL, D. R.—Welding of Alpha-Beta Titanium Alloys in One Inch Plate, 193-s to 202-s (May).
MOLL, R. A.—Composition Effects in Iron-Base Weld Metal, 551-s to 561-s (Dec).
MONROE, R. E.—Electron Beam Welding of Beryllium, 525-s to 540-s (Dec).
MYLONAS, C.—Reduction of Ductility by Prestraining of Maraging Steel and Two Titanium Alloys, 570-s to 576-s (Dec).

NICHOLS, R. W.—The Behavior of 9% Nickel Steel in a Reactor Environment, 97-s to 104-s (Mar).
NIPPES, E. F.—A Method of Investigating Low-Cycle Thermal Fatigue, 371-s to 379-s (Aug).

OLSEN, M. G.—Diffusion Welding of Dissimilar Metals, 23-s to 31-s (Jan).
OWCZARSKI, W. A.—Diffusion Welding of Commercially Pure Titanium, 289-s to 298-s (Jul).
OWCZARSKI, W. A.—Further Heat-Affected-Zone Studies in Heat-Resistant Nickel Alloys, 423-s to 432-s (Sep).

PEPE, J. J.—Effects of Constitutional Liquation in 18Ni Maraging Steel Weldments, 411-s to 422-s (Sep).
PERUN, K. R.—Diffusion Welding and Brazing of Titanium 6Al – 4V Process Development, 385-s to 389-s (Sep).
PFENDER, E.—Plasma Energy Transfer to a Surface With and Without Electric Current, 471-s to 479-s (Oct).
POONAWALA, M. M.—Preliminary Studies of Short-Circuiting Arc Welding of HY-80 Steel, 235-s to 237-s (May)

QUATTRONE, R.—A Multiple Test Approach to the Prediction of Weldment Cracking, 203-s to 216-s (May).

RATHBONE, A. M.—Effects of Composition on the Heat-Affected Zone Toughness of Constructional Alloy Steels, 217-s to 234-s (May).
RATHBONE, A. M.—Development of Procedures for Welding HY-130(T) Steel, 309-s to 321-s (Jul).
RICE, WARREN—An Analytical Investigation of the Temperature Distributions During Resistance Welding, 175-s to 186-s (Apr).
ROLSTEN, R. F.—Effects of Oblique Shocks Produced at Metal Interfaces by Hypervelocity Particle Impact, 517-s to 524-s (Nov).
ROPER, C. R., JR.—Quantitative Effect of Section Size on Transition Temperature, 254-s to 258-s (Jun).
ROSENSTEIN, A. H.—Brittle Fracture of Welded Steel Plates, 481-s to 490-s (Nov).

SALTER, G. R.—The Pulsed Inert Gas-Metal-Arc Welding 1 in. Thick Titanium 721 Alloy, 154-s to 167-s (Apr).
SAMPLE, W. B., JR.—Joining Beryllium by an Electron Beam Braze Welding Technique, 541-s to 550-s (Dec).
SAPERSTEIN, Z. P.—Weld-Metal Microcracking in Reheated Welds, 187-s to 192-s (Apr).
SAVAGE, W. F.—Technical Note: A Mechanism for Crack Formation in HY-80 Steel Weldments, 94-s to 96-s (Feb).
SAVAGE, W. F.—Effects of Constitutional Liquation in 18Ni Maraging Steel Weldments, 411-s to 422-s (Sep).
SCHWENK, W.—Weldability of Titanium Alloy Sheets 6Al-6V-2Sn and 8Al-1Mo-1V, 64-s to 73-s (Feb).
SHIN, SHIGEO—On Some Fundamental Problems in Ultrasonic Welding of Dissimilar Metals, 145-s to 153-s (Apr).
SPITZNER, A. J.—Stainless Maraging Steel for Welded Pressure Vessels, 433-s to 438-s (Oct).
STEGNER, D. A. J.—Prediction of Heat Input for Welding, 122-s to 128-s (Mar).
STEGNER, D. A. J.—Prediction of Physical Properties in Arc Welding, 129-s to 132-s (Mar).
STEGNER, D. A. J.—Weldability of High Carbon Steel Using the Gas Metal-Arc Process, 329-s to 336-s (Jul).
STERN, I. L.—A Multiple Test Approach to the Prediction of Weldment Cracking, 203-s to 216-s (May).
STONE, L. H.—Recrystallization Behavior and Brazing of the TZM Molybdenum Alloy, 299-s to 308-s (Jul).
STONE, L. H.—Brazing Alloys and Techniques for Tantalum Honeycomb Structures, 343-s to 350-s (Aug).
STOUT, R. D.—Composition Effects in Iron-Base Weld Metal, 551-s to 561-s (Dec).
STOUT, R. D.—Quantitative Effect of Section Size on Transition Temperature, 254-s to 258-s (Jun).
STRUNCK, S. S.—Weldability of Cb-Bearing High Strength Low Alloy Steel, 266-s to 269-s (Jun).
SZEKERES, E. S.—Technical Note: A Mechanism for Crack Formation in HY-80 Steel Weldments, 94-s to 96-s (Feb).

THOMAS, A. D., JR.—The Effect of a Volume Relief on the Strength of Solid Ridge Projection Welds, 562-s to 568-s (Dec).
TOCHER, J. L.—Heat Generation and Residual Stress Development in Resistance Spot Welding, 351-s to 360-s (Aug).

UY, J. C.—A Method of Investigating Low-Cycle Thermal Fatigue, 371-s to 379-s (Aug).

WEISS, S.—The Promotion of Wetting and Brazing, 49-s to 57-s (Feb).
WELTER, G.—Variable Stress Cycle Fatigue of Large Butt-Welded Specimens, 39-s to 48-s (Jan).
WORTHINGTON, J. C.—Welding 18% Nickel Maraging Steel to A-201 and A-242 Steels, 1-s to 10-s (Jan).
WU, K. C.—Microstructural Studies of René 41 Simulated Weld Heat-Affected Zones, 32-s to 38-s (Jan).
WU, S. M.—Prediction of Heat Input for Welding, 122-s to 128-s (Mar).
WU, S. M.—Prediction of Physical Properties in Arc Welding, 129-s to 132-s (Mar).
WU, S. M.—Weldability of High Carbon Steel Using the Gas Metal-Arc Process, 329-s to 336-s (Jul).